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## Inventor Information for 10/511310

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**1.) See attached printout of inventors listed in  
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**2.) See attached EAST Inventor Search  
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US 20060092180 A1	20060504	Data input device and display layout method for the same	345/629		Hasegawa; Hiroyasu
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US 20060017362 A1	20060126	Method of reducing the temperature difference between upper and lower portions of a lamp bulb, optical unit, projection type display apparatus and projection television apparatus	313/11		Uno; Nahoko et al.
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US 20050200363 A1	20050915	Electrical inspection method and apparatus for printed wiring board for the electronic component mounting, and computer-readable recording medium	324/523		Hasegawa, Hiroshi et al.
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US 20050117126 A1	20050602	Front projection type multi-projection display	353/94		Miyazawa, Yasunaga et al.
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US 20050100087 A1	20050512	Monitoring system and method, program, and recording medium	375/240.01		Hasegawa, Hiroyuki et al.
US 20050098239 A1	20050512	R-T-B based permanent magnet material alloy and R-T-B based permanent	148/302		Kuniyoshi, Futoshi et al.

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US 20050020212 A1	20050127	Controller for remote control system	455/41.2	455/39	Hiramitsu, Takayuki et al.
US 20050011588 A1	20050120	Centrifugal casting method, centrifugal casting apparatus, and cast alloy produced by same	148/302		Hasegawa, Hiroshi et al.
US 20040255125 A1	20041216	Originality guarantee system, embedded information/alteration detection apparatus and embedded information/alteration detection method, and record medium storing embedded information/alteration detection program therein	713/181		Hasegawa, Hiroshi
US 20040245847 A1	20041209	Noise reducer for vehicle wheel	301/37.33		Hasegawa, Hirotsugu
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US 20040210925 A1	20041021	Information viewing/listening system, information player, and	725/25	725/30; 725/31	Miyazawa, Yasunaga et al.

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US 20040210871 A1	20041021	Apparatus for adjusting use resources of system and method thereof	717/120	717/106; 717/136	Hasegawa, Hiroki et al.
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US 6846285 B2	20050125	Endoscope apparatus with drum part to wind insertion part therearound	600/102	600/146	Hasegawa; Hiroshi et al.

US 6840058 B2	20050111	Refrigerating cycle apparatus and method	62/474	62/502	Suzuki; Masaaki et al.
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US 6797081 B2	20040928	Centrifugal casting method, centrifugal casting apparatus, and cast alloy produced by same	148/539	148/101; 164/114; 164/116; 164/286; 164/298	Hasegawa; Hiroshi et al.
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US 6561168 B2	20030513	Fuel injection device having heater	123/557	123/41.31; 239/133	Hokao; Takayuki et al.
US 6529879 B1	20030304	Electronic cash register enabling to select recommendation commodities to a customer	705/16		Hasegawa; Hiroyasu
US 6512337	20030128	Alternating current	315/169.4	313/494;	Hirano; Naoto

B2		plane discharge type plasma display panel		313/498; 315/169.1; 345/55; 345/60; 345/63	et al.
US 6512326 B1	20030128	Color cathode-ray tube	313/407	313/408	Arai; Shinji et al.
US 6508090 B1	20030121	Vehicle shift lever device	70/247	477/99; 70/237; 70/248; 70/292; 74/473.1	Hasegawa; Hiroyasu et al.
US 6501240 B2	20021231	Linear compressor driving device, medium and information assembly	318/135	310/12; 318/119; 318/127; 318/811; 37/95; 37/97	Ueda; Mitsuo et al.
US 6493521 B2	20021210	Image forming apparatus	399/44	399/69; 399/70	Miyamoto; Toshio et al.
US 6493193 B2	20021210	MR head with MR element and reinforcing body mounted via non-organic film	360/313	360/122; 360/126; 360/324; 360/327	Honma; Yoshiyasu et al.
US 6491758 B1	20021210	CVD apparatus equipped with moisture monitoring	118/715	73/29.01	Hasegawa; Hiroyuki et al.
US 6487445 B1	20021126	Method and apparatus for measuring distribution of body fat	600/547	600/587	Serita; Eiichi et al.
US 6486972 B1	20021126	Video data transfer apparatus	358/1.9	358/515; 358/523	Hasegawa; Hirokazu
US 6480670 B1	20021112	Video signal encoding method and system	386/109	348/699; 375/240.01; 375/240.21	Hatano; Yoshiko et al.
US 6459670 B1	20021001	Optical information recording method and optical information recording device	369/59.12	369/47.51; 369/59.24	Kuwahara; Maho et al.
US 6446039 B1	20020903	Speech recognition method, speech recognition device, and recording medium on which is recorded a speech recognition processing program	704/255	704/250	Miyazawa; Yasunaga et al.
US 6444048	20020903	Alloy for use in	148/101	148/302;	Hasegawa;

B1		preparation of R-T-B-based sintered magnet and process for preparing R-T-B-based sintered magnet		419/12; 75/255	Hiroshi et al.
US 6437774 B1	20020820	Display and input device and display and input system	345/173	345/156	Tsuji; Yoshitaka et al.
US 6434970 B1	20020820	Plate	62/457.6	219/759; 220/574.2	Hasegawa; Hiroshi
US 6434690 B1	20020813	Microprocessor having a DSP and a CPU and a decoder discriminating between DSP-type instructions and CUP-type instructions	712/35	712/209	Ohsuga; Hiroshi et al.
US 6420476 B1	20020716	Composite dielectric material composition, and film, substrate, electronic part and molded article produced therefrom	524/575	524/430; 524/443; 524/444	Yamada; Toshiaki et al.
US 6416463 B1	20020709	Electronic endoscope	600/130	600/104; 600/109; 600/153	Tsuzuki; Masaru et al.
US 6411488 B1	20020625	On board current control device	361/160	361/154; 361/58	Nishiwaki; Fumihiko
US 6409488 B1	20020625	Rotary compressor	418/67		Ikoma; Mitsuhiro et al.
US 6405302 B1	20020611	Microcomputer	712/35	710/306; 710/36; 712/32; 712/36	Ohsuga; Hiroshi et al.
US 6385830 B2	20020514	Electric wire supplying apparatus	29/33M	221/294; 226/137; 29/564.4; 29/753	Hasegawa; Hiroshi
US 6371907 B1	20020416	Endoscope apparatus driving manipulation wires with drive motor in drum portion	600/146	600/102; 600/150; 600/152	Hasegawa; Hiroshi et al.
US 6364967 B1	20020402	High-strength, high-toughness rolled shape steel and method of producing the same	148/320	148/330; 148/333; 148/334; 148/335; 148/648;	Yamamoto; Kouichi et al.

				148/653; 148/654	
US 6361491 B1	20020326	Optical adaptor for highy precision endoscope	600/175	348/45; 356/241.5; 600/111; 600/166; 600/170; 600/172	Hasegawa; Hiroshi et al.
US 6361069 B1	20020326	Head-protection air- bag device	280/730.2	280/749; 280/801.1; 280/801.2; 280/808	Saito; Etsuji et al.
US 6358572 B1	20020319	Method for manufacturing a nonlinear optical thin film	427/527	427/534; 427/567	Nakamura; Naoki et al.
US 6349281 B1	20020219	Voice model learning data creation method and its apparatus	704/246		Miyazawa; Yasunaga et al.
US 6347211 B1	20020212	Fixing apparatus preventing leakage of electric current from inner surface of fixing roller	399/328	399/333	Nanataki; Hideo et al.
US 6328825 B1	20011211	Alloy used for production of a rare- earth magnet and method for producing the same	148/541	148/100; 148/540	Hasegawa; Hiroshi et al.
US 6316503 B1	20011113	LXR modulators	514/604	514/352; 514/354; 514/365; 514/371; 514/447; 514/448; 514/585; 514/596; 546/308; 546/310; 548/196; 548/200; 549/69; 549/72; 564/26; 564/52; 564/53; 564/55; 564/84; 564/92	Li; Leping et al.
US 6308844	20011030	Method for handling	212/270	212/276	Okada; Hisako

B1		an equipment inside a building by a crane installed outside			et al.
US 6298566 B1	20011009	Angular-displacement detecting device	33/1PT	33/503; 338/114; 338/160	Endo; Michiko et al.
US 6288597 B1	20010911	Temperature sensing circuit for voltage drive type semiconductor device and temperature sensing method therefore, and drive-device and voltage drive type semiconductor device using the same	327/513	327/403; 327/405; 327/432; 327/478	Hasegawa; Hiroyuki et al.
US D446991 S	20010828	Portable gas burner	D7/337		Taniguchi; Hitoshi et al.
US 6252922 B1	20010626	Method of handling a nuclear reactor and an apparatus used in the handling method	376/260	376/268; 376/272	Hasegawa; Hiroshi et al.
US 6230386 B1	20010515	Automatic cutting and press-fitting apparatus for electric wire	29/564.4	29/33M	Hasegawa; Hiroshi
US 6212757 B1	20010410	Automatic cutting and crimping apparatus	29/564.4	29/33M; 29/753	Hasegawa; Hiroshi
US 6209045 B1	20010327	Data processor and data processing system	710/15	709/208; 714/34	Hasegawa; Hironobu et al.
US 6198787 B1	20010306	Method of handling a nuclear reactor and an apparatus used in the handling method	376/260	376/268; 376/272	Hasegawa; Hiroshi et al.
US 6191045 B1	20010220	Method of treating surface of sample	438/714	216/72; 216/75; 216/79; 257/E21.311; 257/E21.312; 438/715; 438/719; 438/720; 438/738	Yoshigai; Motohiko et al.
US 6185065	20010206	Electromagnetic	360/97.02	361/685;	Hasegawa;

B1		shielding apparatus for a memory storage disk module which permits air flow for cooling		361/687; 361/818	Hiroshi et al.
US 6154949 A	20001205	Automatic wire cutting and crimping apparatus	29/564.4	29/33M	Hasegawa; Hiroshi
US 6153118 A	20001128	Fluid compositions containing refrigerator oils and chlorine-free fluorocarbon refrigerants	252/68	508/485; 508/492	Hasegawa; Hiroshi et al.
US 6150044 A	20001121	Magnetic head	428/815	360/120; 428/900	Hasegawa; Hiroyuki et al.
US 6142556 A	20001107	Wiring structure in vehicle	296/146.7	174/72A; 296/39.1; 439/34	Tanaka; Atsuo et al.
US 6132195 A	20001017	Rotary compressor	418/67	418/91	Ikoma; Mitsuhiro et al.
US 6130396 A	20001010	Electric resistance welding system	219/110		Hasegawa; Hiroshi et al.
US 6117538 A	20000912	Deoxidizing multilayered body and method or manufacturing the same	428/315.9	156/229; 156/299; 156/300; 428/317.9; 428/319.7; 428/319.9; 428/910	Hirata; Masukazu et al.
US 6113110 A	20000905	Metal gasket	277/593		Hasegawa; Hirokazu
US 6108500 A	20000822	Image forming apparatus	399/67		Ohkama; Yuko et al.
US 6105971 A	20000822	Metal gasket	277/593		Hasegawa; Hirokazu
US 6091460 A	20000718	Video signal encoding method and system	348/699	375/240.16	Hatano; Yoshiko et al.
US 6088178 A	20000711	Magnetic recording and reproducing apparatus	360/50	360/46	Ishida; Tatsuaki et al.
US 6085058 A	20000704	Image forming apparatus having transfer rotary member with surface	399/313	399/314; 399/328; 399/333	Goto; Masahiro et al.

		friction greater than that of image bearing member			
US D426662 S	20000613	Portable gas lantern	D26/40		Taniguchi; Hitoshi et al.
US 6075228 A	20000613	Image heating device with bimetal thermoprotector	219/216	399/329; 399/69	Goto; Masahiro et al.
US 6071943 A	20000606	Imidazole derivative and medicine comprising the same as active ingredient	514/400	548/336.1; 548/341.5	Shioiri; Noriaki et al.
US 6070139 A	20000530	Bifurcated speaker specific and non-speaker specific speech recognition method and apparatus	704/275	704/270	Miyazawa; Yasunaga et al.
US 6057233 A	20000502	Process for producing thin film	438/659	427/553; 427/561; 427/562; 427/565; 427/595; 427/596; 438/478; 438/662; 438/795; 438/798	Nakamura; Naoki et al.
US 6046218 A	20000404	Pyridine derivative and medicament containing the same as an effective ingredient	514/348	514/277; 514/885; 546/296	Hasegawa; Hiroshi et al.
US 6045629 A	20000404	Alloy used for production of a rare-earth magnet and method for producing the same	148/302	148/105; 148/303; 252/62.51R; 75/348	Hasegawa; Hiroshi et al.
US 6038531 A	20000314	Similar word discrimination method and its apparatus	704/232	704/255	Miyazawa; Yasunaga et al.
US 6018508 A	20000125	Intensity of a light beam changed according to the length of a mark	369/59.11	369/116; 369/275.2	Hasegawa; Hiroshi
US 6012894 A	20000111	Automatic lot	414/806	414/273;	Watanabe;



		organization method		414/807; 414/940	Hiroshi et al.
US 6005594 A	19991221	Fixing apparatus having a fixing roller with a non-adhesive surface layer	347/156	399/333	Nanataki; Hideo et al.
US 5999365 A	19991207	Electromagnetic shielding apparatus for a memory storage disk module which permits air flow for cooling	360/97.02	361/685; 361/687; 361/818	Hasegawa; Hiroshi et al.
US 5991555 A	19991123	Image forming apparatus	399/18	399/33; 399/69	Suzumi; Masahiko et al.
US 5983186 A	19991109	Voice-activated interactive speech recognition device and method	704/275	704/233; 704/251	Miyazawa; Yasunaga et al.
US 5982354 A	19991109	Manual input unit	345/158	345/157; 463/36	Arita; Takashi et al.
US 5977478 A	19991102	Solar module	136/259	126/684; 126/685; 126/698; 136/246; 250/216; 250/225; 257/432; 257/436; 359/485; 359/494; 359/496; 359/497; 359/742; 359/831; 359/834; 359/837	Hibino; Kouetsu et al.
US 5963774 A	19991005	Method for producing cast alloy and magnet	419/33	148/302; 419/38; 420/121; 420/83	Sasaki; Shiro et al.
US 5961641 A	19991005	Data processor and data processing system	713/1	709/208	Hasegawa; Hironobu et al.
US 5948179 A	19990907	Alloy used for production of a rare-earth magnet and	148/301	148/303; 148/442; 420/581	Hasegawa; Hiroshi et al.

		method for producing the same			
US 5948123 A	19990907	Coloring method for hides	8/404	8/161; 8/436; 8/94.1R; 8/94.11; 8/94.19R	Hirata; Junichi et al.
US 5946658 A	19990831	Cartridge-based, interactive speech recognition method with a response creation capability	704/275	704/244; 704/251; 704/258	Miyazawa; Yasunaga et al.
US 5945811 A	19990831	Pulse charging method and a charger	320/141	320/145	Hasegawa; Hirokazu et al.
US 5935977 A	19990810	Substituted vinyl pyridine derivative and drugs containing the same	514/348	546/296	Yamazaki; Kazuo et al.
US 5929600 A	19990727	Battery pack and method of producing the same	320/112	429/122	Hasegawa; Hiroyuki
US 5912783 A	19990615	Magnetic recording and reproducing apparatus having ring-type magnetic head with metallic soft magnetic films of differing thicknesses	360/88	360/119; 360/126; 360/93; 360/97.01	Ishida; Tatsuaki et al.
US 5908590 A	19990601	Process and apparatus for manufacturing a foamed resin container with a label	264/45.4	264/153; 264/511; 425/126.1; 425/297; 425/4R; 425/817R	Yoshimi; Toru et al.
US 5908513 A	19990601	Cast alloy used for production of rare earth magnet and method for producing cast alloy and magnet	148/302	420/121; 420/83	Sasaki; Shiro et al.
US 5899972 A	19990504	Interactive voice recognition method and apparatus using affirmative/negative content discrimination	704/249	704/236; 704/251	Miyazawa; Yasunaga et al.
US 5874912 A	19990223	Serial-parallel A/D converter	341/161	341/155	Hasegawa; Hiroshi

US 5869598 A	19990209	Block polymer thermoplastic addition polymer and their production process and use	528/364	528/374; 528/376	Yoshida; Masatoshi et al.
US 5867726 A	19990202	Microcomputer	712/32		Ohsuga; Hiroshi et al.
US 5867235 A	19990202	Assembling construction of a display apparatus and assembling method therefor	349/58	29/830; 340/636.1; 340/636.15; 349/149	Hasegawa; Hiroshi
US 5842168 A	19981124	Cartridge-based, interactive speech recognition device with response-creation capability	704/275	704/244; 704/251; 704/258	Miyazawa; Yasunaga et al.
US 5821780 A	19981013	Comparator operable with low power supply voltage	327/63	327/309; 327/91	Hasegawa; Hiroshi
US 5821482 A	19981013	Keyboard switch having dustproof and droplet-proof push-button	200/5A	200/341; 200/517	Ootani; Yasuo et al.
US 5813111 A	19980929	Apparatus for inserting wire-equipped terminal in connector housing	29/748		Maejima; Takamichi et al.
US 5794204 A	19980811	Interactive speech recognition combining speaker-independent and speaker-specific word recognition, and having a response-creation capability	704/275	704/244; 704/251; 704/258	Miyazawa; Yasunaga et al.
US 5789900 A	19980804	Device for protecting a secondary battery from overcharge and overdischarge	320/132	320/134; 320/136	Hasegawa; Hiroyuki et al.
US 5786783 A	19980728	Analog-to-digital converter having signal pipeline and reference pipelines	341/172		Hasegawa; Hiroshi
US 5786050 A	19980728	Easy opening pouch	428/35.2	206/484; 383/114;	Otsuka; Yoshiaki et al.

				383/121; 428/35.7; 428/475.8; 428/476.1; 428/515; 428/516; 428/910	
US 5776574 A	19980707	Optical recording medium and optical recording/reproducing apparatus	428/64.1	369/100; 369/121; 369/275.1; 369/283; 428/64.4; 428/64.6; 428/913; 430/270.13; 430/495.1; 430/945	Honguh; Yoshinori et al.
US 5769050 A	19980623	Prechamber for diesel engine	123/257	123/259; 123/263; 123/286	Ito; Hideaki et al.
US 5766383 A	19980616	Pneumatic tire	152/209.18	152/209.27; 152/903	Hasegawa; Hirotsugu et al.
US 5764643 A	19980609	ISDN interface unit	370/463	370/522; 370/904	Takebayashi; Tomoyoshi et al.
US 5754926 A	19980519	Charging device	399/175	361/225; 399/174	Sakuraba; Tamotsu et al.
US 5747396 A	19980505	Glass and ceramic substrate using the same	501/32	501/66; 501/67; 501/69; 501/70; 501/72	Miyakoshi; Toshinobu et al.
US 5725042 A	19980310	Method for producing hydrogen-absorbing alloy	164/114	164/117; 164/136; 420/900	Hirose; Yoichi et al.
US 5712700 A	19980127	Imaging apparatus including a pixel shifting means	355/35	348/264; 355/55; 355/71; 358/448	Nagaishi; Katsuya et al.
US 5708434 A	19980113	Resistor string digital/analog converter with resetting switches	341/148	341/150; 341/154	Hasegawa; Hiroshi
US 5705421 A	19980106	A SOI substrate fabricating method	438/459	148/DIG.12; 257/E21.567; 438/970; 438/977	Matsushita; Takeshi et al.
US 5699200 A	19971216	Lens assembly which zooms by combined	359/700	359/699; 359/703;	Uno; Tetsuya et al.

		movement of plural barrels		359/819	
US 5697017 A	19971209	Image forming apparatus having process cartridge with shutter and cleaning member	399/71	399/114	Rooke; Paul Allen et al.
US 5690381 A	19971125	Spare seat for vehicle	297/234	297/233; 297/411.34	Hasegawa; Hiroaki et al.
US 5682576 A	19971028	Fixing device	399/69	219/216; 399/33	Sakai; Hiroaki et al.
US 5682102 A	19971028	Electrostatic capacity measuring instrument for stator winding of electric rotating machine	324/545	324/689; 324/772; 340/648	Takahashi; Shinji et al.
US 5679762 A	19971021	Block polymer, thermoplastic addition polymer, and their production process and use	528/364	528/374; 528/376	Yoshida; Masatoshi et al.
US 5677692 A	19971014	High-speed and low-voltage driven analog-to-digital converter	341/161	341/118; 341/120; 341/158	Hasegawa; Hiroshi
US 5673249 A	19970930	Phase change type optical recording apparatus and optical recording method using an overwrite system	369/53.29	369/116; 369/53.27	Hasegawa; Hiroshi et al.
US 5673248 A	19970930	Phase change type optical recording apparatus and optical recording method using an overwrite system	369/53.29	369/116; 369/275.4; 369/53.27	Hasegawa; Hiroshi et al.
US 5669147 A	19970923	Tilt sensor	33/334	200/276; 200/61.52; 200/DIG.29; 33/366.11	Nakajima; Noriaki et al.
US 5646386 A	19970708	Vacuum interrupter	218/129		Yorita; Mitsumasa et al.
US 5638373 A	19970610	ISDN interface unit	370/467	370/524; 375/242	Takebayashi; Tomoyoshi et

					al.
US 5622086 A	19970422	Shift lever device and slide cover structure therefor	74/566	74/473.33	Suzuki; Kenji et al.
US 5597993 A	19970128	Vacuum interrupter	218/129		Yorita; Mitsumasa et al.
US 5589924 A	19961231	Electrophotographic image forming system	399/350	399/346	Yano; Hideyuki et al.
US 5588206 A	19961231	Method for inserting wire-equipped terminal in connector housing	29/845	29/748	Maejima; Takamichi et al.
US 5579006 A	19961126	A/D converter	341/162	341/135	Hasegawa; Hiroshi et al.
US 5563943 A	19961008	ISDN interface unit with separate ring generator	379/373.01	370/524; 379/418	Takebayashi; Tomoyoshi et al.
US 5558012 A	19960924	Automatic bundling machine	100/26	100/31; 140/93.6; 53/138.8; 53/589	Yamashima; Osamu et al.
US 5557327 A	19960917	Image input apparatus with two-dimensional pixel shift	348/340	348/219.1; 348/239	Hasegawa; Hiroshi et al.
US 5556860 A	19960917	Quinazolinone derivatives possessing calcium uptake inhibiting activity	514/258.1	514/217.06; 514/234.2; 514/266.1; 514/266.21; 514/266.3; 544/278; 544/279; 544/284; 544/286	Muraoka; Masami et al.
US 5551830 A	19960903	Automatic lot organization method	414/807	414/273; 414/331.04; 414/940	Watanabe; Hiroshi et al.
US 5545969 A	19960813	Battery residual capacity displaying system with discharged electrical quantity computation section	320/134	320/149; 320/152; 324/427; 340/636.12; 340/636.13; 340/636.15	Hasegawa; Hirokazu
US 5534974 A	19960709	Printing apparatus performing	399/1	399/81	Hasegawa; Hironobu

		bidirectional communication with a plurality of user terminals			
US 5521810 A	19960528	Rectifying saturable reactor	363/91	336/175; 363/128	Yamaguchi; Sataro et al.
US 5519472 A	19960521	Developing apparatus using elastic blade	399/274	399/270	Ojima; Masaki et al.
US 5517277 A	19960514	Battery pack	396/281	320/127; 320/149; 396/301	Goto; Tetsuro et al.
US 5512198 A	19960430	Lubricating compositions comprising fluoroalkane refrigerant, an ester and/or polyglycol oil, and an inorganic boron compound	252/68	252/67; 252/69; 508/160	Sasaki; Umekichi et al.
US 5511956 A	19960430	High pressure fuel pump for internal combustion engine	417/271	123/496; 417/273; 417/364	Hasegawa; Hiroshi et al.
US 5510515 A	19960423	Process for purifying polar vinyl compound	560/218		Akizawa; Toshiyuki et al.
US 5495085 A	19960227	Vacuum interrupter	218/123	218/127; 218/129	Yorita; Mitsumasa et al.
US 5479977 A	19960102	Pneumatic tire with carcass structure for increased sidewall rigidity	152/542	152/209.5; 152/454; 152/525; 152/526; 152/531; 152/533; 152/543; 152/546; 152/547; 152/550; 152/552; 152/554; 152/555	Tamano; Akiyoshi et al.
US 5474826 A	19951212	Optical recording medium and optical recording/reproducing apparatus	428/64.6	369/100; 369/121; 428/65.1; 428/913; 430/270.11; 430/270.13;	Honguh; Yoshinori et al.

				430/945	
US 5468315 A	19951121	Method of and apparatus for producing multilayer ceramic board	156/64	100/220; 100/246; 100/318; 100/319; 100/320; 100/38; 156/381; 156/580; 156/583.1; 156/89.12; 425/111; 425/408; 425/519; 425/520	Okada; Ken'ichi et al.
US 5464550 A	19951107	Refrigerator oil composition containing phosphate ester additives for fluoroalkane refrigerant	252/68	252/67; 508/436	Sasaki; Umekichi et al.
US 5454861 A	19951003	Composition for forming protective layer of dielectric material	106/2	106/287.1; 106/287.16; 106/287.17; 106/287.19; 252/62.3BT; 252/62.3R	Hasegawa; Hiromi et al.
US 5450412 A	19950912	ISDN interface unit	370/463	370/524; 710/22	Takebayashi; Tomoyoshi et al.
US 5447647 A	19950905	Synthetic lubricating oil	252/68	252/67; 508/304	Ishida; Noboru et al.
US 5443745 A	19950822	Lubricant for refrigerating machine	508/304	252/67; 252/68; 62/114	Sakamoto; Tetsuro et al.
US 5435364 A	19950725	Pneumatic radial tire with four main grooves	152/209.18	152/209.22; 152/209.28	Hasegawa; Hirotsugu et al.
US 5431975 A	19950711	Optical recording medium and optical recording/reproducing apparatus	428/64.6	346/135.1; 347/264; 428/457; 428/913; 430/270.13; 430/945	Honguh; Yoshinori et al.
US 5424602 A	19950613	Piezoelectric transformer showing a reduced input	310/359	310/366	Sato; Masuji et al.



		impedance and step-up/step-down operation for a wide range of load resistance			
US 5416665 A	19950516	Vehicle electromagnetic clutch control device	361/154	361/196; 477/175; 477/176	Nishiwaki; Fumihiko et al.
US 5410523 A	19950425	Optical pickup driving apparatus	369/44.15	369/44.13; 369/44.17; 369/44.27	Koike; Shigeaki et al.
US 5391311 A	19950221	Fluid compositions for refrigerators	508/304	252/68; 508/435; 508/440; 508/441; 508/462	Ishida; Noboru et al.
US 5379353 A	19950103	Apparatus and method for controlling a moving vehicle utilizing a digital differential analysis circuit	382/104	382/281	Hasegawa; Hiroshi et al.
US 5371430 A	19941206	Piezoelectric transformer producing an output A.C. voltage with reduced distortion	310/359	310/366	Sato; Masuji et al.
US 5370809 A	19941206	Synthetic lubricating oils	508/304	252/68; 508/462; 558/266	Ishida; Noboru et al.
US 5362918 A	19941108	Process for producing acetaldehyde dimethylacetal	568/594	203/68; 203/70; 568/605; 568/699	Aizawa; Toshiyuki et al.
US 5359666 A	19941025	Driving way judging device and method	382/104	348/119; 382/199; 701/28	Nakayama; Shigeto et al.
US 5356528 A	19941018	Copper foil for printed circuits and method of producing same	205/155	148/265; 205/125; 205/177; 205/196; 205/197	Fukuda; Katsuhito et al.
US 5343223 A	19940830	Image forming apparatus	347/139	347/134	Tohyama; Yoshio et al.
US 5338619 A	19940816	Copper foil for printed circuits and method of producing	428/623	428/624; 428/632; 428/658;	Fukuda; Katsuhito et al.

		same		428/674	
US 5321482 A	19940614	Process cartridge and image forming apparatus including a lubricant provided on a cleaning member for cleaning an image bearing member	399/346	399/350	Yano; Hideyuki et al.
US 5307689 A	19940503	Mass flowmeter	73/861.357		Nishiyama; Shigeru et al.
US 5307419 A	19940426	Control device of an autonomously moving body and evaluation method for data thereof	382/153	348/119; 382/199; 701/28	Tsujino; Hiroshi et al.
US 5305660 A	19940426	Shift knob	74/553	16/441; 74/523; 74/538; 74/543; 74/551.9	Hasegawa; Hiroyasu
US 5300517 A	19940405	Piperidine compounds having anti-acetylcholinesterase activity	514/326	546/208	Hasegawa; Hiroshi et al.
US 5298576 A	19940329	Sizing agent for carbon fiber and carbon fiber treated with said sizing agent	525/528	523/205; 528/93	Sumida; Atsushi et al.
US 5286917 A	19940215	Apparatus for developing electrostatic latent image and developing roller therefor	399/279		Unno; Akira et al.
US 5279752 A	19940118	Composition for lubricating oil	252/68	252/78.5; 508/304; 508/433	Hasegawa; Hiroshi et al.
US 5279045 A	19940118	Minute particle loading method and apparatus	34/360	228/246; 228/41; 257/E21.508; 34/402; 34/558; 34/565; 34/576; 366/101; 366/102	Odashima; Hitoshi et al.
US 5276308 A	19940104	Controller for resistance welding	219/110		Hasegawa; Hiroshi
US 5262076 A	19931116	Synthetic lubricating oils	508/433	252/68; 508/462	Ishida; Noboru et al.

US 5259229 A	19931109	Apparatus for cooling thin-webbed H-beam steel	72/201	239/562	Inagaki; Akira et al.
US 5253028 A	19931012	Image forming apparatus having a plurality of vertically stacked image forming units and providing easily conducted jam clearing and maintenance	399/124	271/3.14; 271/9.09; 271/9.11; 271/902; 399/130	Gonda; Takashi et al.
US 5253022 A	19931012	Image forming apparatus	399/313	399/66	Takeuchi; Akihiko et al.
US 5251805 A	19931012	Wire bonding method and apparatus	228/180.5	228/1.1; 228/111; 228/173.5	Tani; Mitsukiyo et al.
US 5247587 A	19930921	Peak data extracting device and a rotary motion recurrence formula computing device	382/168	382/104; 382/266; 382/291	Hasegawa; Hiroshi et al.
US 5243390 A	19930907	Device for conveying developer in a developing device	399/254		Takemoto; Shinichi et al.
US 5241845 A	19930907	Neurocontrol for washing machines	68/12.02	68/12.04; 68/12.16; 68/12.21; 706/23; 706/904	Ishibashi; Osamu et al.
US 5240934 A	19930831	Quinoline derivatives	514/290	514/292; 514/297; 540/521; 540/580; 546/104; 546/79; 546/93	Hasegawa; Hiroshi et al.
US 5235386 A	19930810	Charging device having charging member, process cartridge and image forming apparatus	399/176	361/225; 399/222	Yano; Hideyuki et al.
US 5226298 A	19930713	Thermoelectric air conditioner with absorbent heat exchanger surfaces	62/3.4	62/281; 62/309; 62/325	Yamamoto; Yoshiaki et al.
US D336890 S	19930629	Geared motor	D13/112		Hirose; Hideo

					et al.
US 5221943 A	19930622	Image forming apparatus	399/111	347/138; 358/296	Hasegawa; Hirofumi
US 5220615 A	19930615	Apparatus for and method of hough-converting coordinate data	382/281	708/421; 708/442	Ishii; Jun et al.
US 5202729 A	19930413	Developing apparatus having a coated developing roller	399/103	399/119; 399/274	Miyamoto; Toshio et al.
US 5191778 A	19930309	Process for producing thin-webbed H-beam steel	72/12.2	148/511; 148/641; 148/643; 239/557; 266/134; 72/201; 72/342.6; 72/365.2	Inagaki; Akira et al.
US 5190961 A	19930302	Thiourea derivatives and antimicrobial agent and antulcer agent containing the same	514/331	514/308; 514/318; 514/326; 514/343; 514/353; 514/422; 514/428; 514/438; 514/447; 514/471; 514/472; 514/586; 546/193; 546/213; 546/214; 546/231; 546/276.4; 546/305; 546/331; 548/517; 548/527; 548/567; 549/482; 549/496; 549/69; 549/77; 564/17; 564/22; 564/23; 564/27	Hasegawa; Hirokazu et al.
US 5190951 A	19930302	Quinoline derivatives	514/292	546/103;	Hasegawa;

				546/81; 546/84	Hiroshi et al.
US D332626 S	19930119	Writing instrument	D19/48	D19/43; D19/51; D19/57	Wada; Yoshihiro et al.
US 5179397 A	19930112	Image forming apparatus with constant voltage and constant current control	347/140	399/168; 399/297	Ohzeki; Yukihiro et al.
US 5177549 A	19930105	Image forming apparatus supplied with controllable bias voltage	399/320		Ohtsuka; Yasumasa et al.
US 5177537 A	19930105	Developing apparatus with elastic regulating member urged to a developer carrying member	399/222		Okano; Keiji et al.
US D332073 S	19921229	Automobile tire	D12/518		Hasegawa; Hirotsugu
US 5172317 A	19921215	Automatic travelling apparatus	701/28	180/169	Asanuma; Nobuyoshi et al.
US 5172315 A	19921215	Automatic travelling apparatus and method	701/28	180/169	Asanuma; Nobuyoshi et al.
US D330882 S	19921110	Automobile tire	D12/550		Hasegawa; Hirotsugu
US 5162845 A	19921110	Image forming apparatus	399/13	271/303; 346/44; 355/46; 361/727; 399/361	Ariyama; Takayuki et al.
US 5157442 A	19921020	Image forming apparatus	399/276	399/350; 430/110.4	Tanigawa; Koichi et al.
US 5153654 A	19921006	Image forming apparatus having transfer member for carrying transfer material	399/318		Yuminamochi; Takayasu et al.
US 5153645 A	19921006	Position indexing indicators for editing an image forming apparatus	399/183	358/453; 399/184	Hasegawa; Hirofumi et al.
US 5150167 A	19920922	Image forming apparatus	399/16	271/186; 271/225; 271/256;	Gonda; Takashi et al.

				399/361	
US 5150166 A	19920922	Image forming system including attachable sheet supplying units for transporting sheets directly to an image forming part	399/110	347/153; 399/391; 399/393	Matsuura; Yasuhiro et al.
US 5146789 A	19920915	Turbine flowmeter	73/861.91	.	Kato; Takashi et al.
US 5128923 A	19920707	Disc cartridge for cleaning an objective lens	369/292	15/160; 360/128; 369/71; 369/72	Hasegawa; Hiroyuki et al.
US 5122817 A	19920616	Electrophotographic recorder using a modulated laser beam to scan the original	399/5	347/137; 347/256; 358/296; 399/1; 399/220	Hasegawa; Hirofumi et al.
US 5097329 A	19920317	Process for judging a runway	348/171	348/143; 382/103; 382/203	Hasegawa; Hiroshi et al.
US 5090764 A	19920225	Vehicle body construction for hardtop convertible	296/107.08	296/136.02	Kogawa; Hiroshi et al.
US 5090540 A	19920225	Shift range device for automatic transmission	192/87.19	74/335; 74/473.3	Hasegawa; Hiromi et al.
US 5084760 A	19920128	Copying machine providing copy paper corresponding to read image area	358/300	358/450; 358/453; 399/2; 399/370	Hashimoto; Kaoru et al.
US 5083273 A	19920121	Temperature detection for electromagnetic clutch of vehicle	701/68	477/174; 477/179; 477/76; 477/87	Nishiwaki; Fumihiko et al.
US 5080816 A	19920114	Lubricant for refrigerating machine	508/582		Sakamoto; Tetsuro et al.
US 5077453 A	19911231	Arc-extinguisher of a switch	218/74		Hasegawa; Hiroshi et al.
US D320772 S	19911015	Automobile tire	D12/555		Hasegawa; Hirotsugu
US 5057868 A	19911015	Developing apparatus having a sealing construction for preventing a toner leakage	399/105	399/284	Sekino; Hitoshi et al.
US 5051757 A	19910924	Optical scanning with	347/258	347/250;	Hasegawa;

		cylindrical lens and beam slit		358/296	Hirofumi
US 5048106 A	19910910	Image reader	382/298	355/55; 355/56; 358/406; 358/451; 358/474; 382/317	Nakajima; Akio et al.
US 5047805 A	19910910	Developing device having a space for receiving and increasing pressure of toner received therein	399/105	399/264	Oka; Tateki et al.
US 5045365 A	19910903	Process for producing metal foil coated with flame sprayed ceramic	427/453	118/69; 427/398.3	Okano; Norio et al.
US 5032993 A	19910716	Control for an automatic transmission	701/62	477/125; 477/132; 477/139; 477/906; 701/55	Hasegawa; Hiromi et al.
US 5030461 A	19910709	Colored shoyu (soy sauce)	426/253	426/266	Tokita; Hiroshi et al.
US 5028756 A	19910702	Electrode wire for electric spark cutting	219/69.12	420/429; 420/430	Ezaki; Shigeo et al.
US 5027302 A	19910625	Device for switching vehicle operating characteristics	701/48	280/5.514; 280/5.518; 280/5.519	Asanuma; Nobuyoshi et al.
US 5025286 A	19910618	Laser beam image forming apparatus with SOS Detection	399/6	347/134; 355/66; 399/220	Hasegawa; Hirofumi et al.
US 5018466 A	19910528	Sewing machine	112/275		Hasegawa; Hiroshi
US 5017961 A	19910521	Image forming apparatus with use of a laser beam	399/5	347/129; 358/296; 358/300; 399/6	Hasegawa; Hirofumi et al.
US 5006934 A	19910409	Copying machine capable of storing image data	358/296	347/129; 358/401; 399/81	Hashimoto; Kaoru et al.
US 4991957 A	19910212	Borescope apparatus	356/241.4	385/118	Sakamoto; Nobuyuki et al.
US 4982205 A	19910101	Laser beam scanner in which the line scan time is maintained constant by decreasing the	347/261	359/218	Hasegawa; Hirofumi

		rotating speed of a scanning element as the number of reflective facets thereon increases			
US 4978977 A	19901218	Laser scanner with conjugate condition lens	347/258	347/261; 358/302; 359/205; 359/217	Ohmori; Naoto et al.
US 4977275 A	19901211	Pyrrole derivatives	548/539	546/279.1; 548/517; 548/527	Hasegawa; Hiroshi et al.
US 4974921 A	19901204	Light beam scanning apparatus	359/218	347/260	Miyata; Shin et al.
US 4972740 A	19901127	Hydraulic control circuit for automatic transmission	477/134	477/125	Hasegawa; Hiromi et al.
US 4972236 A	19901120	Compact image forming apparatus for double-sided and composite copying	399/16	271/186; 271/291; 399/361	Hasegawa; Hirofumi
US 4967133 A	19901030	Motor control apparatus	318/798	318/759; 318/806	Hasegawa; Hiroshi
US 4966794 A	19901030	Artificial stone molded body and process for fabrication thereof	428/15	156/61; 264/331.18	Hasegawa; Hiroaki et al.
US 4965870 A	19901023	Image forming apparatus with use of a laser beam	355/68	355/40; 399/221	Hasegawa; Hirofumi et al.
US 4965747 A	19901023	Image forming apparatus	358/1.7	345/442; 347/129; 347/900	Ohtsuka; Yasumasa et al.
US 4961035 A	19901002	Rotational angle control of screw tightening	318/600	173/183; 318/652; 388/907.5	Inaba; Hidetoshi et al.
US D310803 S	19900925	Automobile tire	D12/590		Hasegawa; Hirotugu
US 4949090 A	19900814	Transmit/receive module test system	342/173	342/372	Tamii; Seizo et al.
US 4948525 A	19900814	Lubricating oil compositions for refrigerators	508/304	252/68; 252/69; 508/433; 508/579	Sasaki; Umekichi et al.
US 4947019 A	19900807	Composite electrode for resistance welding	219/119	219/120	Akiyama; Kazutoyo et al.
US 4945390 A	19900731	Image-forming	399/405	271/301;	Hasegawa;



		apparatus		271/303	Hirofumi et al.
US 4944193 A	19900731	Automatic transmission with a power take-off mechanism	74/15.86	475/331; 74/15.66	Harada; Kouhei et al.
US 4941559 A	19900717	Wet friction member, and wet frictional engagement apparatus for a transmission using the same	192/107R	192/107M; 192/70.14	Ishikawa; Keiichi et al.
US 4941457 A	19900717	Endoscope using an optical guide twisted on the tip side to have the visual field direction and curvature axis coincide with each other	600/142	356/241.4; 600/111; 600/170; 600/175; 600/182	Hasegawa; Hiroshi
US 4939788 A	19900703	Circuit arrangement for indicating electric field strength	455/241.1	455/250.1	Hasegawa; Hiroki
US 4936896 A	19900626	Device for confirming whether a lock is locked or unlocked	70/432	70/276; 70/408; 70/413	Takatsuka; Jitsuho
US 4934044 A	19900619	Wiring method and apparatus for electronic circuit boards or the like	29/850	156/196; 156/199; 228/173.5; 269/217; 29/853; 29/854	Hasegawa; Hiroshi et al.
US 4924982 A	19900515	Oil pressure clutch mechanism for an automatic transmission	192/48.8	192/85AA; 192/87.1; 192/87.11	Harada; Kouhei et al.
US 4924269 A	19900508	Original illuminating apparatus	399/178	399/220	Hasegawa; Hirofumi
US 4922087 A	19900501	Image reader capable of calculating the real focal length of a projecting lens	250/201.4	355/56; 358/497	Nakajima; Akio et al.
US 4918996 A	19900424	Turbine flowmeter	73/861.91	384/402	Kato; Takashi et al.
US 4916480 A	19900410	Image forming apparatus with use of a laser beam	355/71	399/220; 399/380	Hasegawa; Hirofumi et al.
US 4908605 A	19900313	Device for confirming whether a lock is	340/542	70/432	Takatsuka; Jitsuho

		locked or unlocked			
US 4903533 A	19900227	Turbine flowmeter	73/861.91	384/370; 384/371	Kato; Takashi et al.
US 4881810 A	19891121	Endoscope with a removable cover member	356/241.5	385/117; 600/127; 600/140	Hasegawa; Hiroshi
US 4880091 A	19891114	Control circuit for fluid coupling with lock-up clutch	192/3.3	192/3.29	Hasegawa; Hiromi et al.
US 4876359 A	19891024	Novel gamma- butyrolactone derivatives	548/533	546/245; 548/407; 548/540; 548/953; 549/265; 549/321; 549/323	Hasegawa; Hiroshi et al.
US 4875618 A	19891024	Wire stacked bonding method	228/180.5	219/56.1; 219/56.22; 228/4.5; 257/E21.518; 361/773	Hasegawa; Hiroshi et al.
US 4870877 A	19891003	Hydraulic control circuit for automatic transmission	477/125	477/132	Hasegawa; Hiromi et al.
US 4870294 A	19890926	Image scanning apparatus with expanded magnification capability	358/451	250/235; 355/57; 358/494	Hasegawa; Hirofumi
US 4860732 A	19890829	Endoscope apparatus provided with endoscope insertion aid	600/109	356/241.5; 600/114; 600/175	Hasegawa; Hiroshi et al.
US 4848817 A	19890718	Hook forceps apparatus for industrial endoscopes	294/19.1	385/118; 415/118	Hasegawa; Hiroshi
US 4843909 A	19890704	Automatic transmission control method	475/119	475/123; 477/117	Hasegawa; Hiromi et al.
US 4837846 A	19890606	Method of the image processing	382/272	358/3.01	Oyabu; Masaaki et al.
US 4828084 A	19890509	Control circuit for fluid coupling with high-gear clutch	192/3.3	192/3.29	Hasegawa; Hiromi et al.
US 4816486 A	19890328	Amide derivatives and 5-lypoxigenase	514/620	564/170	Takai; Makoto et al.

		inhibitors containing the same			
US 4811606 A	19890314	Mass flowmeter	73/861.357		Hasegawa; Hiroaki et al.
US 4807598 A	19890228	Endoscope having fixing and expanding members	600/140	600/153; 600/182	Hasegawa; Hiroshi
US 4788197 A	19881129	Pyrazine derivatives useful as platelet aggregation inhibitors	514/252.1	514/255.05; 544/336; 544/410	Wakabayashi; Toshio et al.
US 4786770 A	19881122	Switchgear	218/23	218/53	Hamano; Suenobu et al.
US 4772874 A	19880920	Keyboard apparatus	341/26	341/33	Hasegawa; Hiroshi
US 4768396 A	19880906	Rotary cam assembly	74/567	137/315.39; 137/637; 477/156	Takahashi; Shigeo et al.
US 4758394 A	19880719	Method of and apparatus for forming cups of expanded resin	264/51	264/321; 264/337; 264/531; 264/573; 264/DIG.66; 425/342.1; 425/384; 425/398; 425/4R	Yaita; Masato et al.
US 4751376 A	19880614	Image reader with focus and magnification detection control	250/201.8	358/406; 358/451; 358/497	Sugiura; Masamichi et al.
US 4745576 A	19880517	Address assignment system for image memory	711/202		Hasegawa; Hirokazu et al.
US 4739650 A	19880426	Gas flow measuring apparatus	73/118.2	73/861.74	Matsuura; Takeo et al.
US 4737812 A	19880412	Automatic focusing camera	396/133	396/535	Hasegawa; Hiroshi et al.
US 4736409 A	19880405	Control data transmission system for private branch exchange	379/269	370/360; 379/166	Hasegawa; Hiroyuki et al.
US 4733581 A	19880329	Automatic transmission provided with mode preventing increase in oil temperature	477/98	477/144	Hasegawa; Hiromi et al.

US 4733390 A	19880322	Data transmission system	370/461	340/825.5; 370/509	Shirakawa; Masakazu et al.
US 4729107 A	19880301	Pattern data conversion processing system	358/1.17	345/658; 382/297; 382/298	Hasegawa; Hirokazu et al.
US 4713284 A	19871215	Ceramic coated laminate and process for producing the same	442/233	156/247; 156/285; 427/453; 427/454; 428/209; 428/210; 428/901	Hasegawa; Hiroshi et al.
US 4673349 A	19870616	High temperature surface combustion burner	431/328	126/92AC; 431/170	Abe; Fumio et al.
US 4668069 A	19870526	Exposure control device in a camera	396/231	396/240; 396/241	Hasegawa; Hiroshi
US 4659879 A	19870421	Key switch	200/5A	200/517; 341/33; 361/288	Hasegawa; Hiroshi
US 4654435 A	19870331	Process for addition reaction of unsaturated organic compounds	560/61	560/51; 562/459; 562/464; 562/471	Kitahara; Shizuo et al.
US 4651773 A	19870324	Throttle valve assembly	137/315.39	137/315.22; 137/636.1; 137/637; 251/263; 477/156	Takahashi; Shigeo et al.
US 4643558 A	19870217	Electronic power supply	396/301	327/393; 327/544	Hasegawa; Hiroshi
US D288078 S	19870203	Automobile tire	D12/596		Hasegawa; Hirotsugu
US 4631214 A	19861223	Transparent electromagnetic wave shielding material	428/68	174/35MS; 219/740; 264/1.9; 264/273; 264/342R; 264/348; 315/85; 428/161; 428/164; 428/172; 428/74; 428/76; 442/281; 976/DIG.330	Hasegawa; Hiroaki

US 4618752 A	19861021	Gas-insulated interrupter	218/48		Ozaki; Yukio et al.
US 4606242 A	19860819	Parking device	74/606R	74/577S	Hasegawa; Hiromi et al.
US 4584377 A	19860422	Novel Fredericamycin A derivatives	546/15		Yokoi; Koichi et al.
US 4566994 A	19860128	Flame-retardant electrical insulating oil composition	252/574	106/18.18; 106/18.19; 252/580; 252/78.5	Hasegawa; Hiroshi et al.
US 4566079 A	19860121	Cassette-type magnetic-bubble memory apparatus	365/1		Hasegawa; Hiroshi et al.
US 4523830 A	19850618	Automatic control type electronic flash apparatus	396/163	396/201; 396/295	Iida; Yoshikazu et al.
US 4519683 A	19850528	Electronic flash apparatus	396/159	396/201	Hagyuda; Nobuyoshi et al.
US 4509843 A	19850409	Apparatus for controlling a micro-processor unit in a camera	396/303	396/213; 396/250	Hasegawa; Hiroshi
US 4494851 A	19850122	Display unit for flashlight photography	396/163	396/174; 396/175	Maida; Osamu et al.
US 4491404 A	19850101	Flash photography system	396/169	396/180; 396/251	Hasegawa; Hiroshi et al.
US 4489993 A	19841225	CRT mounting structure	312/7.2		Hasegawa; Hiroshi et al.
US 4482932 A	19841113	Keyboard switch	361/288		Hasegawa; Hiroshi
US 4462278 A	19840731	Transmission for vehicles	475/123	475/131	Murakami; Noboru et al.
US 4450506 A	19840522	Automatic light-quantity-control speed light	362/4	315/241S; 362/5; 396/166; 396/201	Hasegawa; Hiroshi
US RE31567 E	19840424	Automatic control indication device in an automatic control type electronic flash unit	396/163	396/201	Hasegawa; Hiroshi
US 4439953 A	19840403	Abrasive disc holder	451/521	451/510	Block; Aleck et al.
US 4412041 A	19831025	Process for modifying	525/154	525/262;	Kitahara;

		rubbers employing a compound containing a carboxyl and an aldehyde group		525/301	Shizuo et al.
US 4412031 A	19831025	Modified rubber composition employing a compound containing a carboxyl and an aldehyde group	524/526	524/511; 524/512; 524/572; 525/154; 525/262; 525/301	Kitahara; Shizuo et al.
US 4405911 A	19830920	Electromagnetic relay	335/202	335/135	Hasegawa; Hiroshi et al.
US 4389424 A	19830621	Production of semiprocessed fried potato pieces for preservation at room temperature	426/546	426/412; 426/415; 426/438; 426/637; 426/808	Hasegawa; Hiroshi
US 4388068 A	19830614	Metal heating furnace	432/122	126/91A; 432/209	Takeuchi; Osamu et al.
US 4377095 A	19830322	Speed change gear system	475/276		Murakami; Noboru et al.
US 4376095 A	19830308	Hollow fiber-type artificial lung having enclosed heat exchanger	422/46	128/DIG.3; 261/DIG.28; 422/48	Hasegawa; Hiroshi
US 4359275 A	19821116	Single lens reflex camera system capable of TTL flash output control	396/162	396/180; 396/268; 396/358	Hasegawa; Hiroshi
US 4354750 A	19821019	Flash unit having a flash output control device	396/163		Hasegawa; Hiroshi et al.
US 4351600 A	19820928	Flash output control failure warning device of an automatic flash output control speed light	396/203		Hasegawa; Hiroshi et al.
US 4304478 A	19811208	Information introducing device of an electronic flash unit	396/155		Katayama; Akira et al.
US 4298263 A	19811103	Electromagnetic release device in a camera	396/465		Hasegawa; Hiroshi
US 4287549 A	19810901	Circuit for charging a	361/156	396/465	Hasegawa;

		release magnet energizing capacitor in a camera			Hiroshi et al.
US 4286855 A	19810901	Electromagnetic releasing device	396/465	396/502	Hasegawa; Hiroshi
US 4285171 A	19810825	Abrasive flap drum	451/469	15/230.12; 51/293	Block; Aleck et al.
US 4265622 A	19810505	Foot controller for electrical dental instruments	433/101		Hasegawa; Hiroshi
US 4258992 A	19810331	Automatic control device for a camera having an electromagnetic release device	396/252	396/264; 396/301	Hasegawa; Hiroshi
US 4239729 A	19801216	Oxygenator	422/48	128/DIG.3	Hasegawa; Hiroshi et al.
US 4228381 A	19801014	Flash tube apparatus with delayed emission	315/151	315/241P; 396/159	Hasegawa; Hiroshi
US 4217737 A	19800819	Abrasive flap drum	451/469	15/230.16; 15/230.17	Hasegawa; Hiroshi
US 4199236 A	19800422	Synchronizing speed warning apparatus for camera	396/167	396/180; 396/201	Goto; Tetsuro et al.
US 4196997 A	19800408	Interchangeable lens for a camera	396/298		Ohmori; Sachio et al.
US 4193677 A	19800318	Warning circuit in an auto-controlled flashlight photographing device	396/203	396/204	Hasegawa; Hiroshi et al.
US 4189219 A	19800219	Control system for flash photographing apparatus	396/160		Hasegawa; Hiroshi et al.
US 4164370 A	19790814	Shutter device in a camera	396/482		Kimura; Shuji et al.
US 4163924 A	19790807	Circuit for turning on a charging-completion indicator separate from a flash unit	315/241P	315/133; 340/660; 396/203; 396/206	Hasegawa; Hiroshi et al.
US 4160160 A	19790703	Circuit for integrating a quantity of light in an automatic control type flash unit	250/214P	315/151; 396/159; 396/205	Hasegawa; Hiroshi et al.
US 4122465 A	19781024	Device for indicating	396/163	315/134;	Hasegawa;

		condition of exposure in an automatic control type electronic flash unit for flash photography		315/151; 396/201	Hiroshi et al.
US 4113660 A	19780912	Production of shaped catalysts or carriers comprising titanium oxides	502/84	423/239.1; 502/208; 502/242; 502/340; 502/350	Abe; Kazunobu et al.
US 4090333 A	19780523	Flexible grinding wheel	451/468		Block; Aleck et al.
US 4089013 A	19780509	Flashlight information signal generating device for a camera	396/159		Hasegawa; Hiroshi et al.
US 4072620 A	19780207	Electrical insulating oil	585/6.6	208/14; 208/19	Masunaga; Midori et al.
US 4069166 A	19780117	Electrical insulating oils	585/6.6	208/14; 208/19; 252/73; 585/12	Masunaga; Midori et al.
US 3999193 A	19761221	Automatic control indication device in an automatic control type electronic flash unit	396/163	315/136; 315/151; 315/241P; 396/201	Hasegawa; Hiroshi
US 3955086 A	19760504	Radiation thickness gauge	378/56	250/252.1; 324/132; 702/170	Tsujii; Tatsuo et al.
US 3946091 A	19760323	Aromatic co-polyester articles showing reduced crazing	525/444		Sakata; Hiroshi et al.
US 3932030 A	19760113	Illuminating device in an ophthalmometer	351/212	351/205; 351/216	Hasegawa; Hiroshi et al.
US 3884990 A	19750520	Aromatic co-polyester composition containing polyethylene oxybenzoate and aromatic phenolic polyester	525/448	525/437; 525/934; 528/173; 528/191; 528/193; 528/206	Sakata; Hiroshi et al.
US 3861781 A	19750121	SEPARABLE OPTICAL FIBER CONNECTOR AND THE METHOD OF MANUFACTURING	385/80	385/60; 385/85; 65/407	Hasegawa; Hiroyuki et al.



		THE SAME			
US 3795498 A	19740305	METHOD OF MAKING AN ABRASIVE WHEEL	51/297	451/466	Hasegawa; Hiroshi
US 3786320 A	19740115	SCHOTTKY BARRIER PRESSURE SENSITIVE SEMICONDUCTOR DEVICE WITH AIR SPACE AROUND PERIPHERY OF METAL-SEMICONDUCTOR JUNCTION	257/418	257/E29.324	Kano; Gota et al.
US 3769060 A	19731030	SPECIFIC PROCESSED CLOTHS AND A METHOD OF PRODUCING THE SAME	428/196	427/160; 427/170; 427/210; 428/907; 428/920; 428/921; 428/922	Ida; Shunya et al.
US 3763408 A	19731002	SCHOTTKY BARRIER SEMICONDUCTOR DEVICE HAVING A SUBSTANTIALLY NON-CONDUCTIVE BARRIER FOR PREVENTING UNDESIRABLE REVERSE-LEAKAGE CURRENTS AND METHOD FOR MAKING THE SAME	257/284	257/483	Kano; Gota et al.
US 3746950 A	19730717	PRESSURE-SENSITIVE SCHOTTKY BARRIER SEMICONDUCTOR DEVICE HAVING A SUBSTANTIALLY NON-	257/415	257/483; 257/486	Kano; Gota et al.

		CONDUCTIVE BARRIER FOR PREVENTING UNDESIRABLE REVERSE- LEAKAGE CURRENTS AND METHOD FOR MAKING THE SAME			
US 3742315 A	19730626	SCHOTTKY BARRIER TYPE SEMICONDUCTOR DEVICE WITH IMPROVED BACKWARD BREAKDOWN VOLTAGE CHARACTERISTIC	257/483	148/DIG.102; 148/DIG.115; 148/DIG.139; 148/DIG.51; 257/487; 257/618; 257/627; 257/E21.223; 257/E23.022; 257/E29.338	Iizuka; Mutsuo et al.
US 3733896 A	19730522	COMPUTING APPARATUS FOR A CALORIMETER	374/40	235/61C; 476/1	Soya; Masahiro et al.
US 3684785 A	19720815	PROCESS FOR THE PRODUCTION OF CIS-1,4- POLYISOPRENE	526/159	526/141; 526/142; 526/340.2; 526/89; 526/903	Hasegawa; Hiroaki et al.
US 3634931 A	19720118	METHOD FOR MANUFACTURING PRESSURE SENSITIVE SEMICONDUCTOR DEVICE	438/133	257/108; 257/155; 257/414; 257/E29.324; 438/139; 438/537; 438/571	Kano; Gota et al.
US 3499918 A	19700310	MANUFACTURE OF HIGHLY PURE ALUMINUM ALCOHOLATE [TEXT AVAILABLE IN USOCR DATABASE]	556/185	556/182; 568/700; 568/715; 568/716; 568/780; 568/821; 568/834; 568/835; 568/838; 568/840	SATO MIKIO et al.